FIG. 1

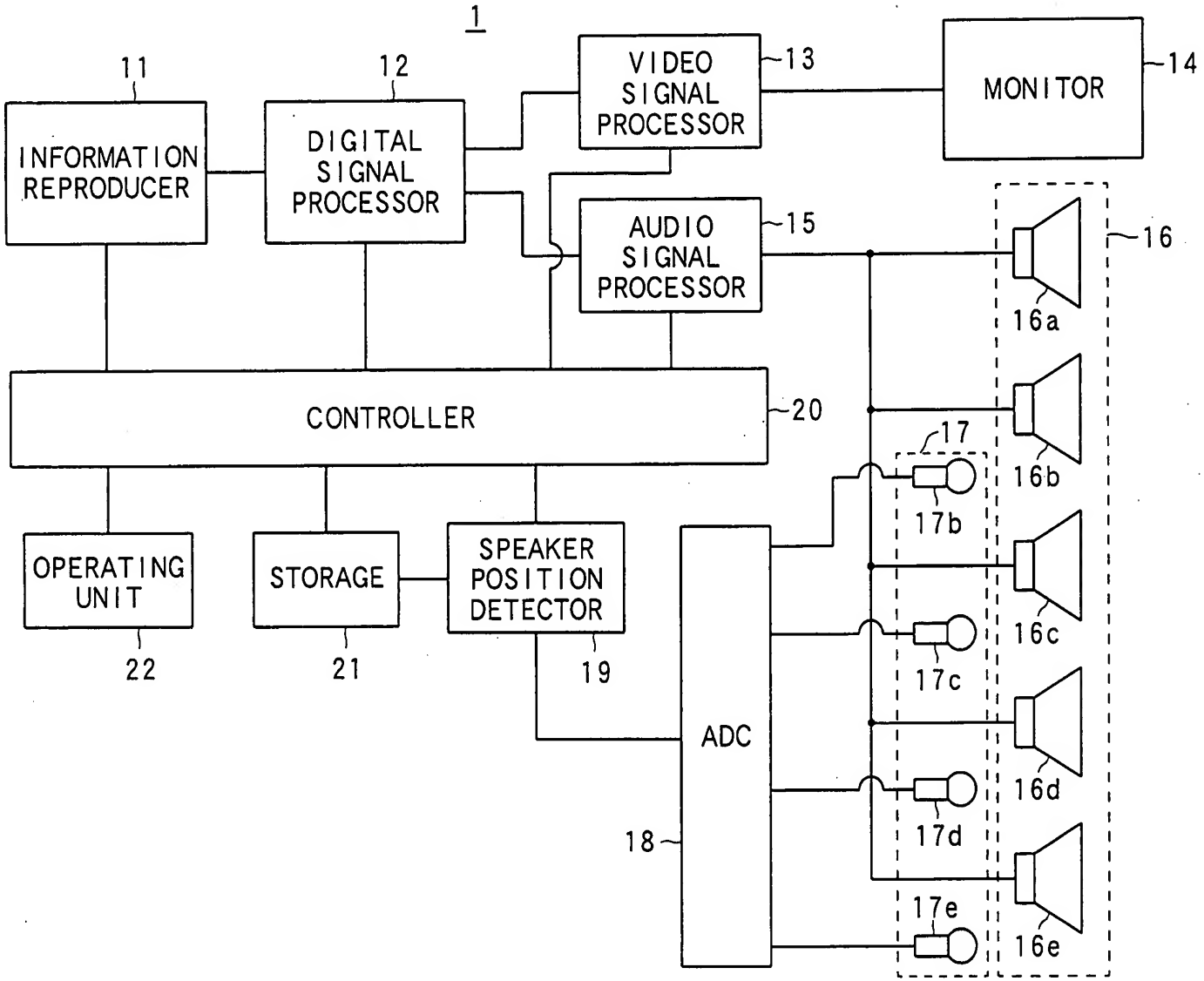

1
11
INFORMATION REPRODUCER
12
DIGITAL SIGNAL PROCESSOR
VIDEO SIGNAL PROCESSOR
13
MONITOR
14
AUDIO SIGNAL PROCESSOR
15
16
16a
16b
16c
16d
16e
CONTROLLER
20
17
17b
17c
17d
17e
OPERATING UNIT
22
STORAGE
21
SPEAKER POSITION DETECTOR
19
ADC
18

FIG. 2

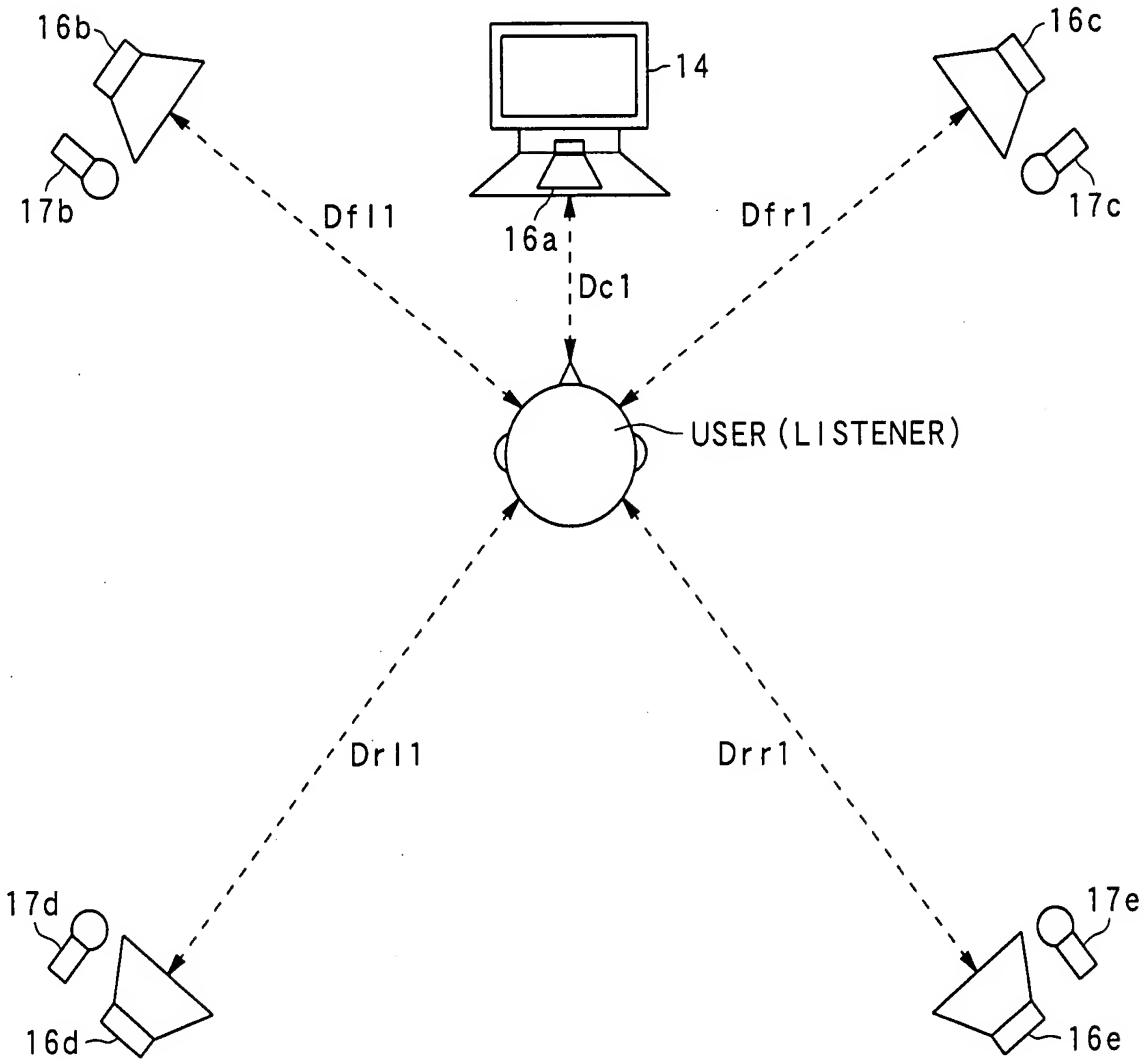

16b
17b
Dfl1
14
16a
Dc1
Dfr1
16c
17c
USER (LISTENER)
Drl1
Drr1
17d
16d
17e
16e

FIG. 3

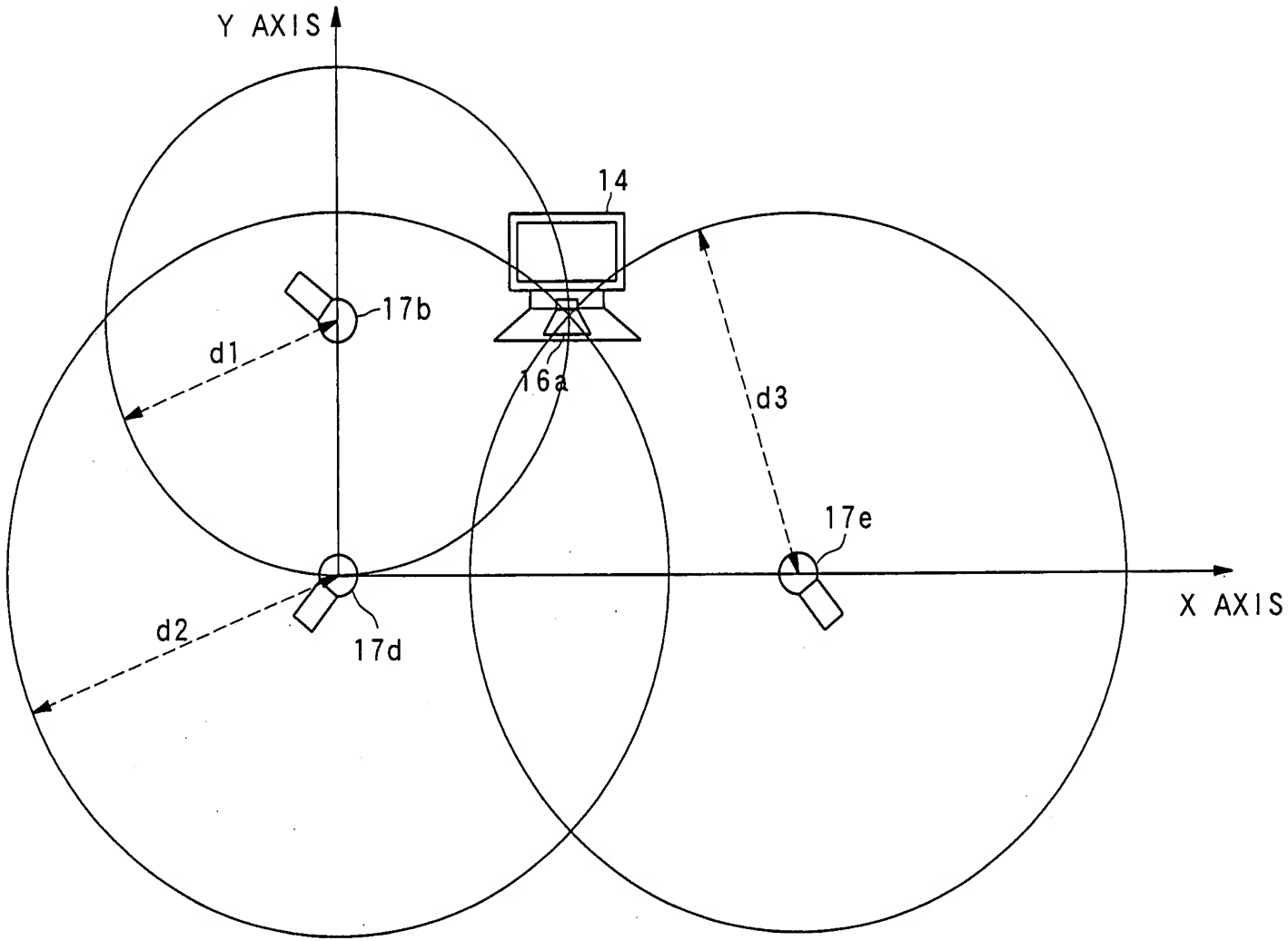


FIG. 4

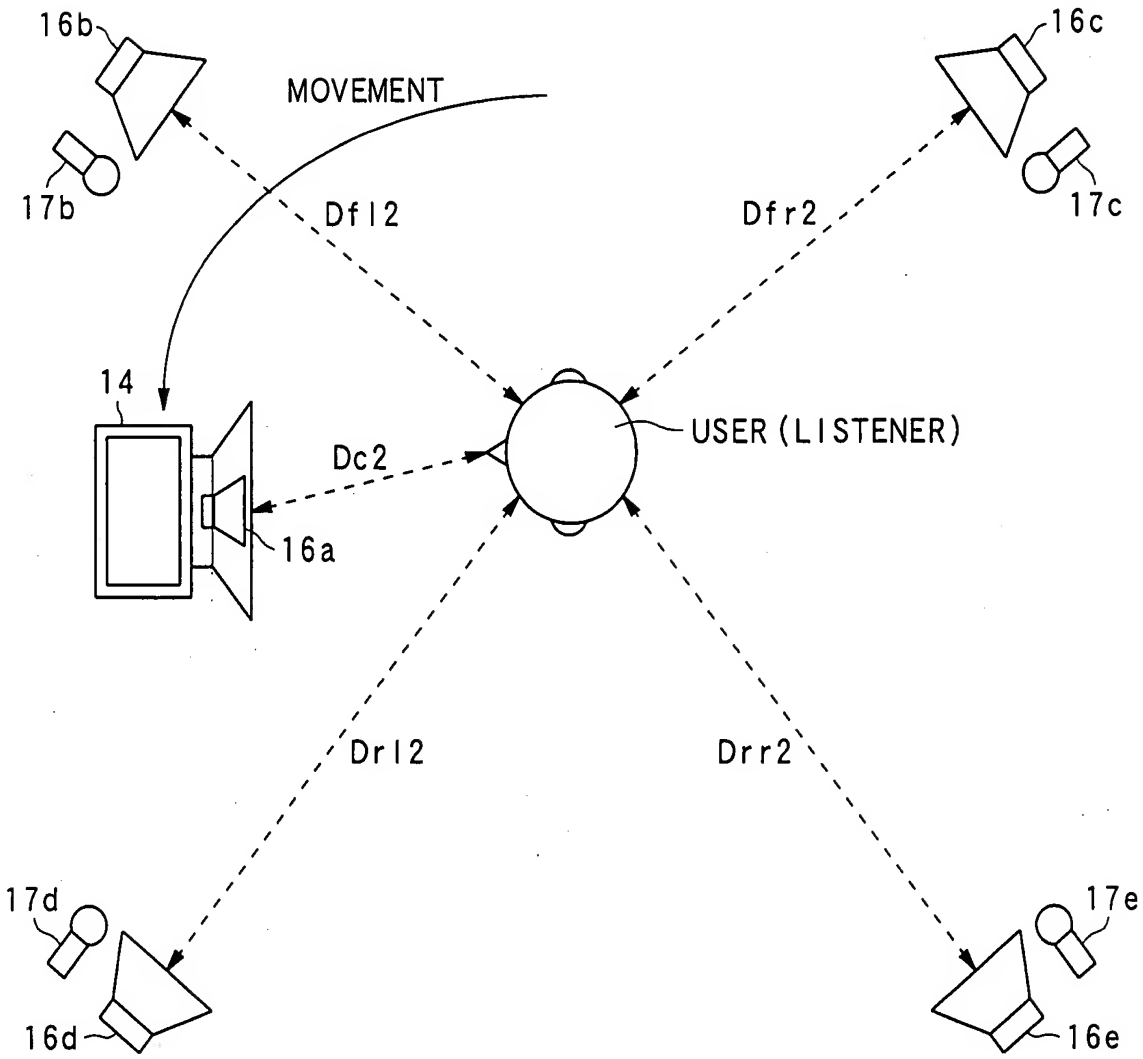

16b
MOVEMENT
16c
17b
Df12
Dfr2
17c
14
USER (LISTENER)
Dc2
16a
Dr12
Drr2
17d
17e
16d
16e

FIG. 5

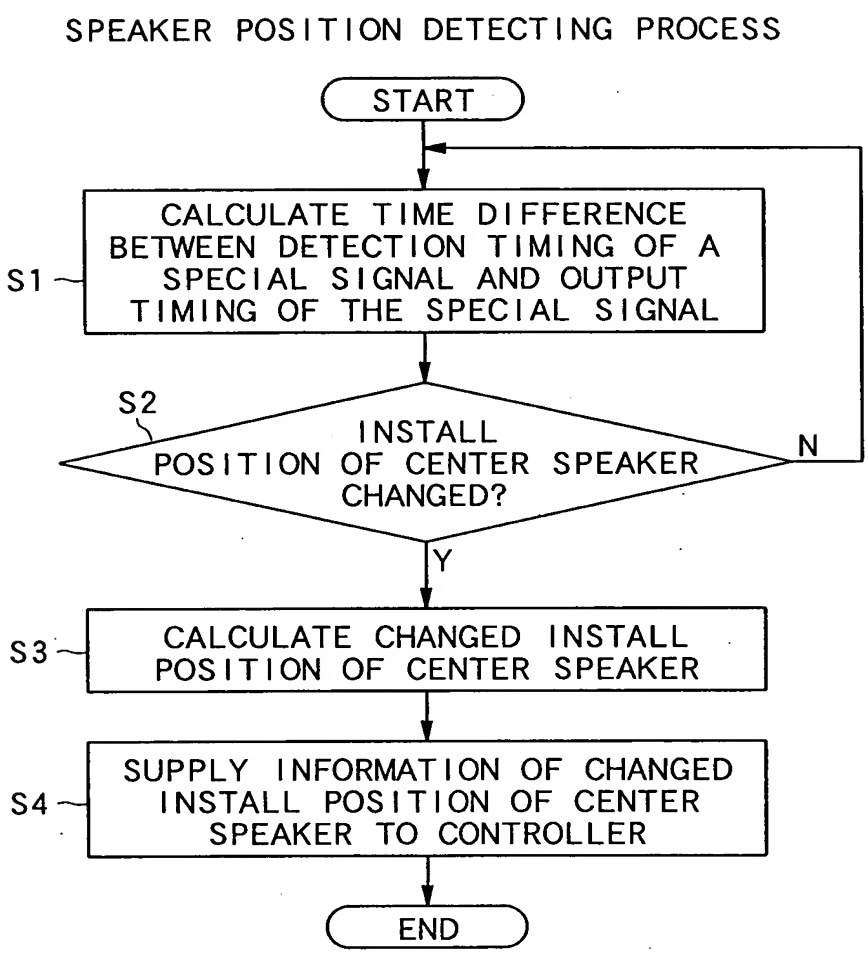
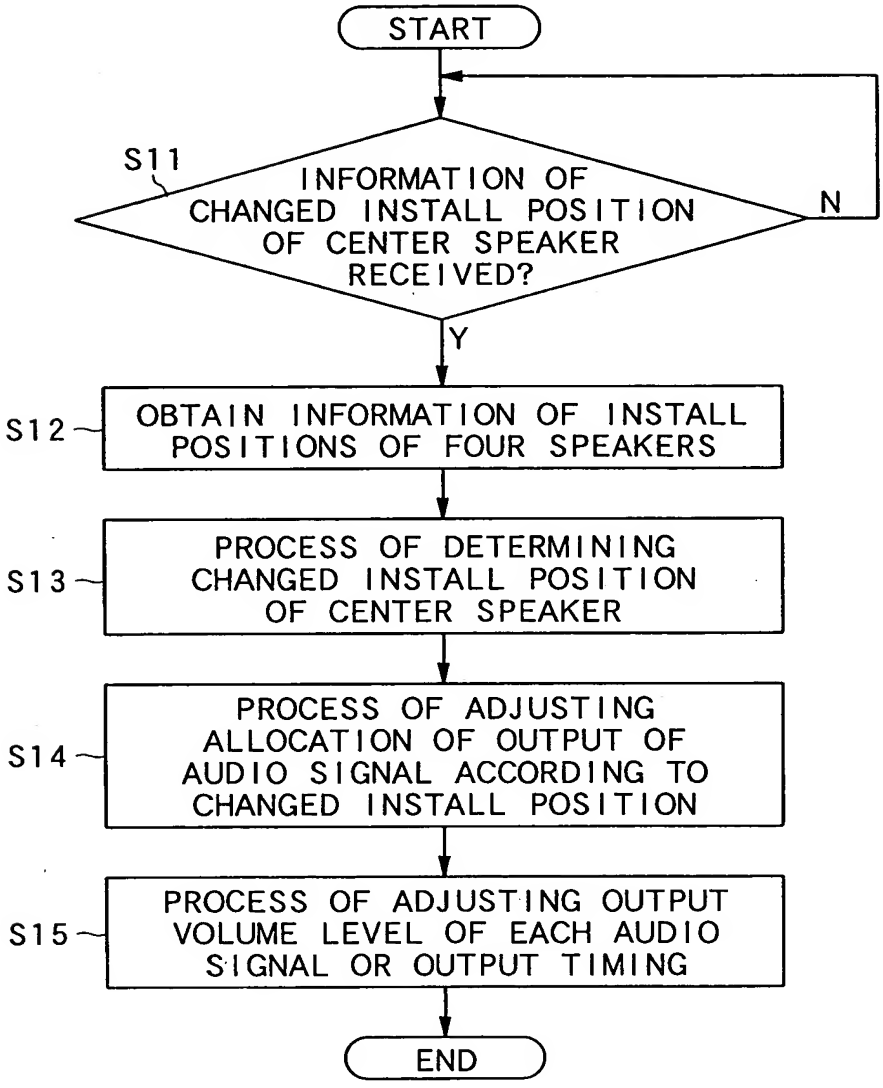

SPEAKER POSITION DETECTING PROCESS
START
CALCULATE TIME DIFFERENCE BETWEEN DETECTION TIMING OF A SPECIAL SIGNAL AND OUTPUT TIMING OF THE SPECIAL SIGNAL
S1
S2
INSTALL POSITION OF CENTER SPEAKER CHANGED?
N
Y
CALCULATE CHANGED INSTALL POSITION OF CENTER SPEAKER
S3
SUPPLY INFORMATION OF CHANGED INSTALL POSITION OF CENTER SPEAKER TO CONTROLLER
S4
END

FIG. 6

AUDIO SIGNAL OUTPUT ADJUSTING PROCESS